

Figure 1a: Single-Beam Elevation Difference at Survey Line Crossings, 2007
Cross Flow Transect Elevation vs. Longitudinal Transect Elevation

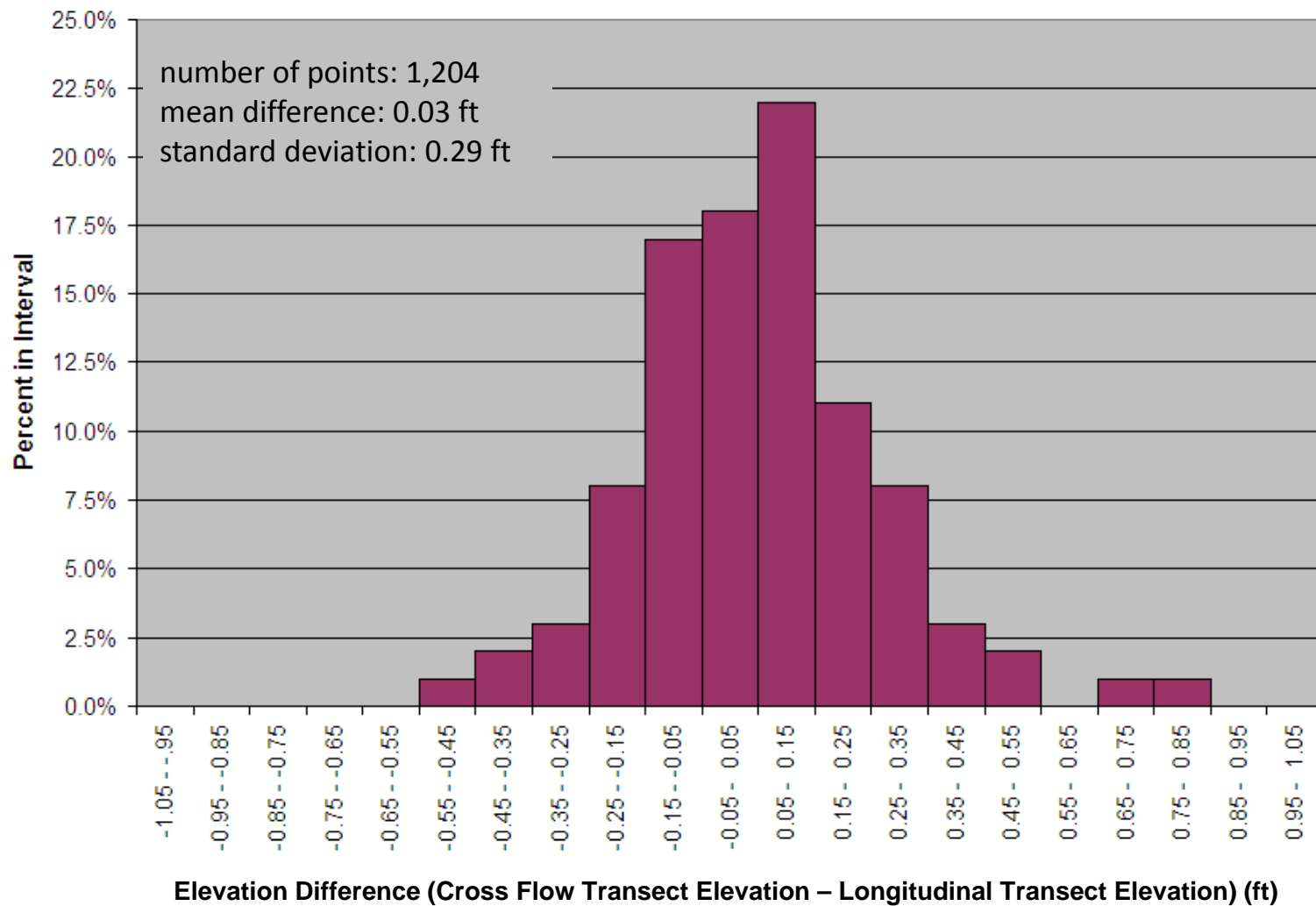


Figure 1b. Histogram of 2007 Multibeam - 2007 Single Beam Cross Transects

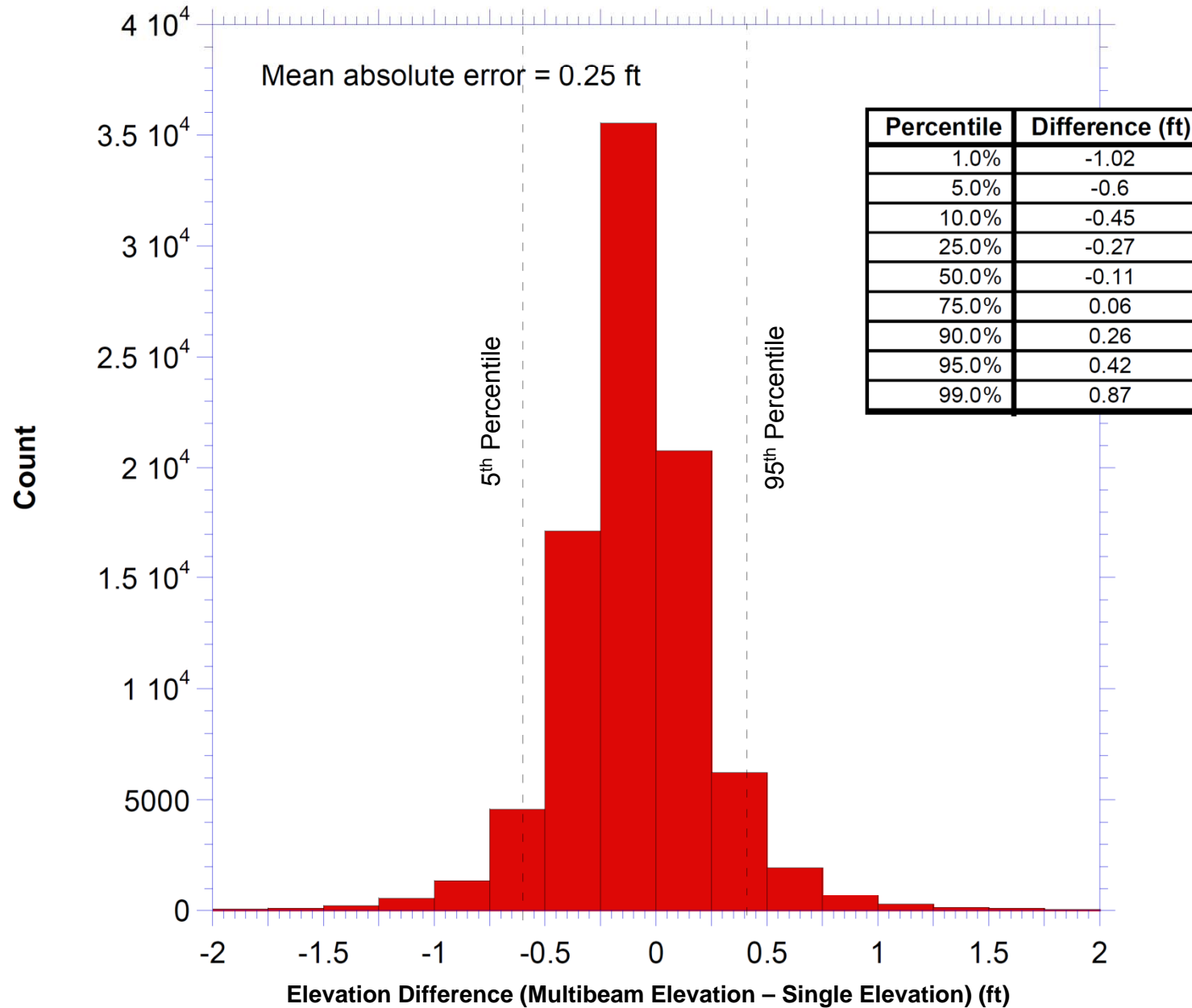
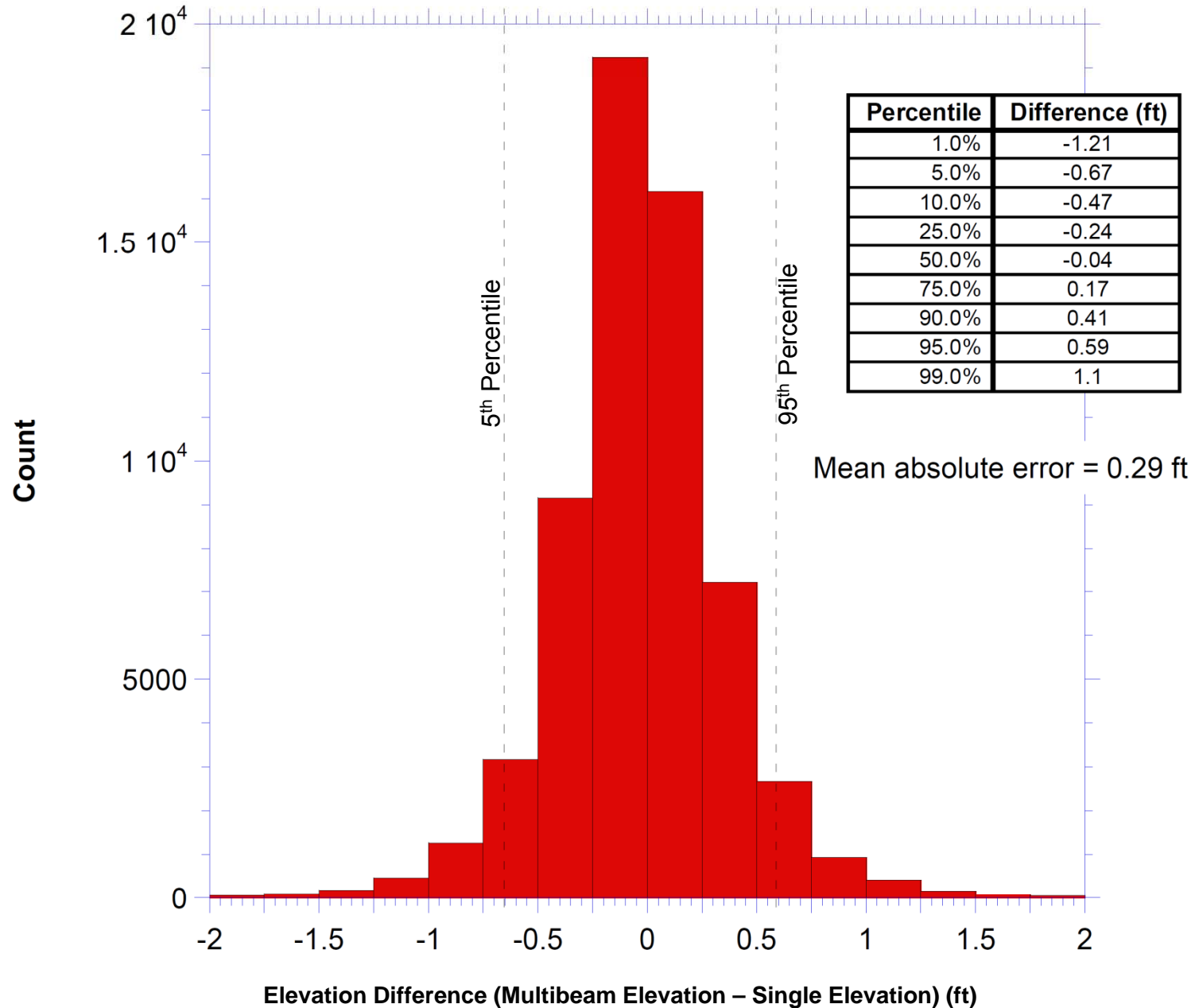
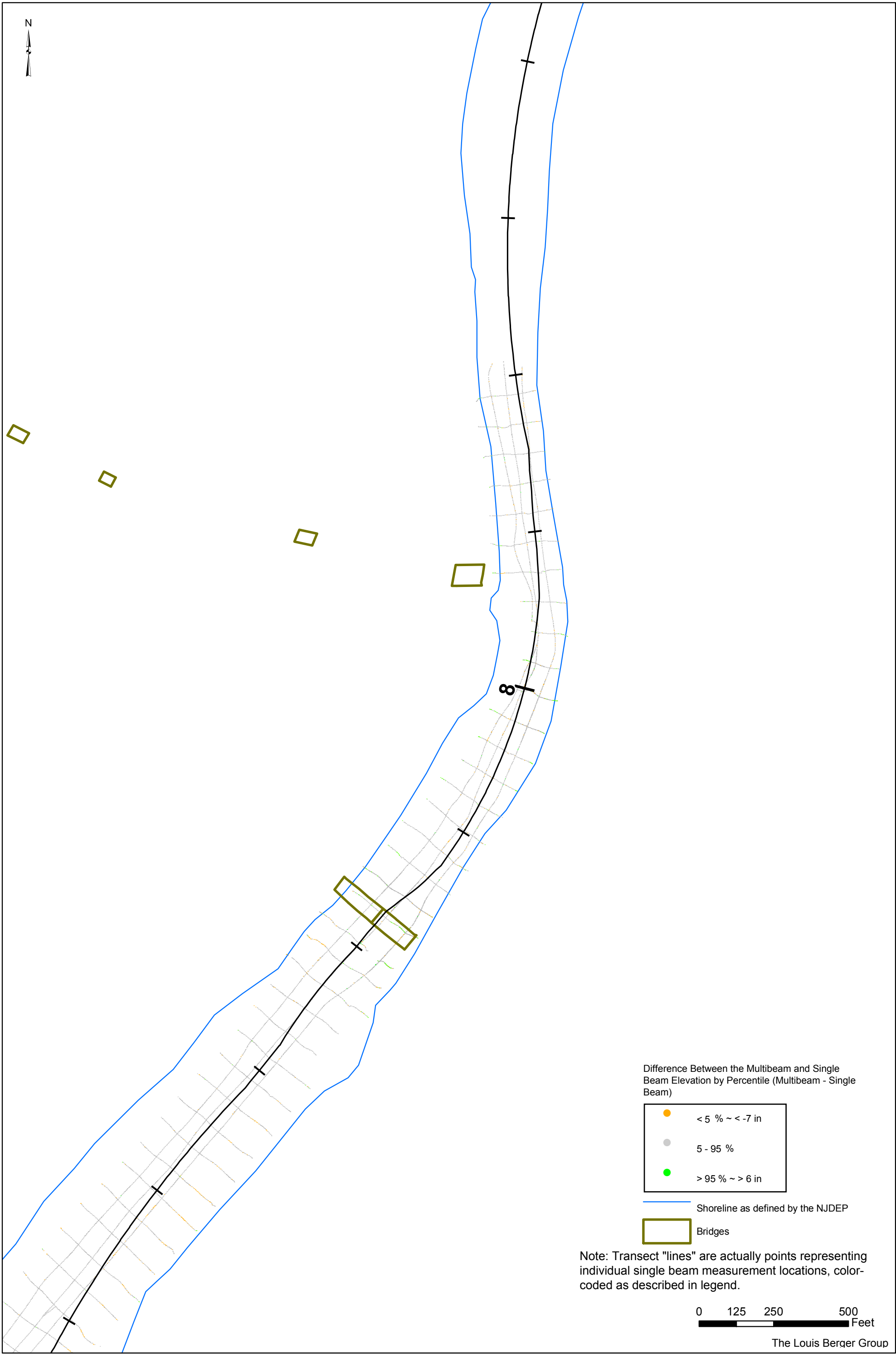


Figure 1c. Histogram of 2007 Multibeam - 2007 Single Beam Longitudinal Transects



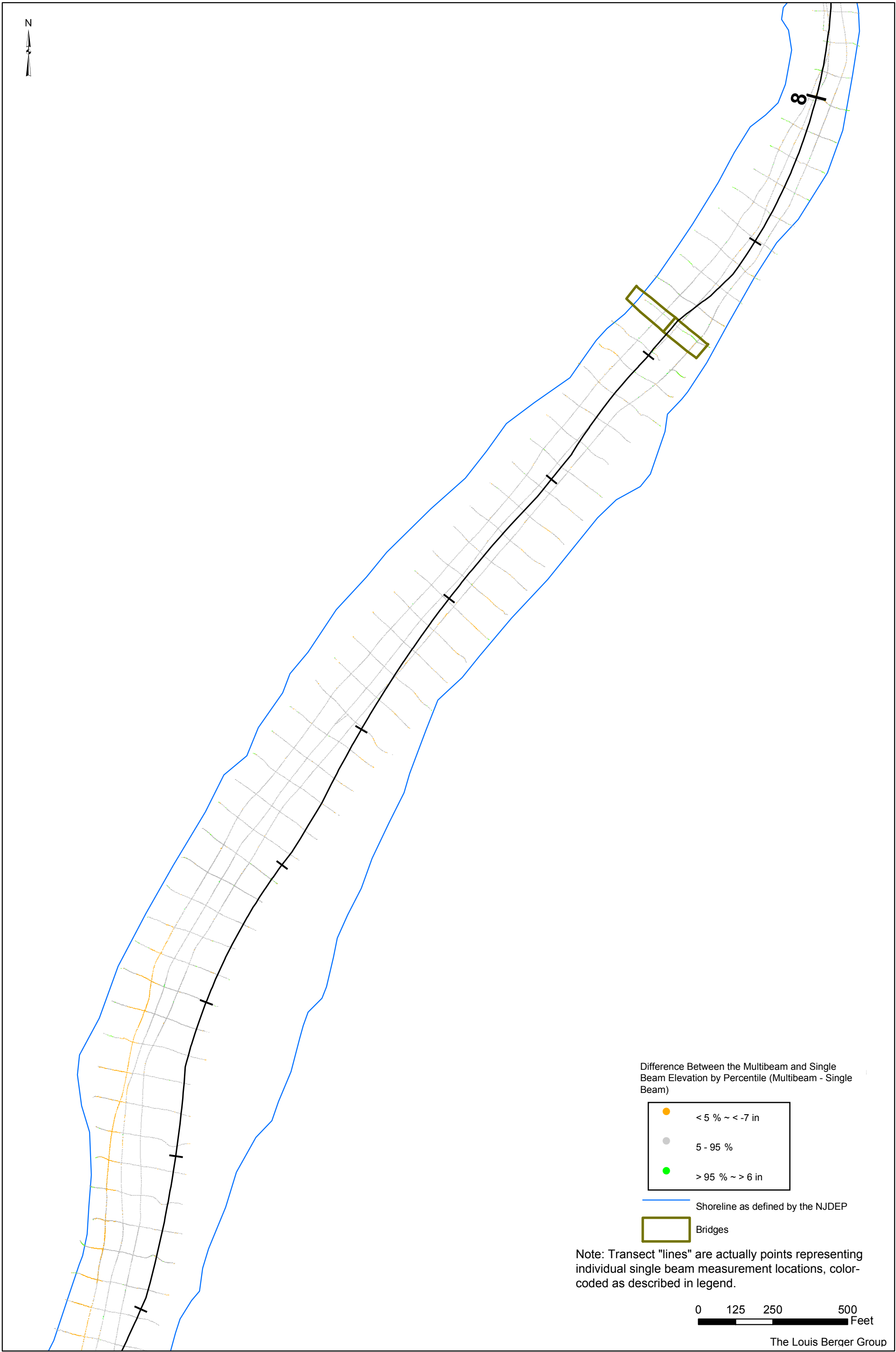


Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration

Figure 2a

November 2009

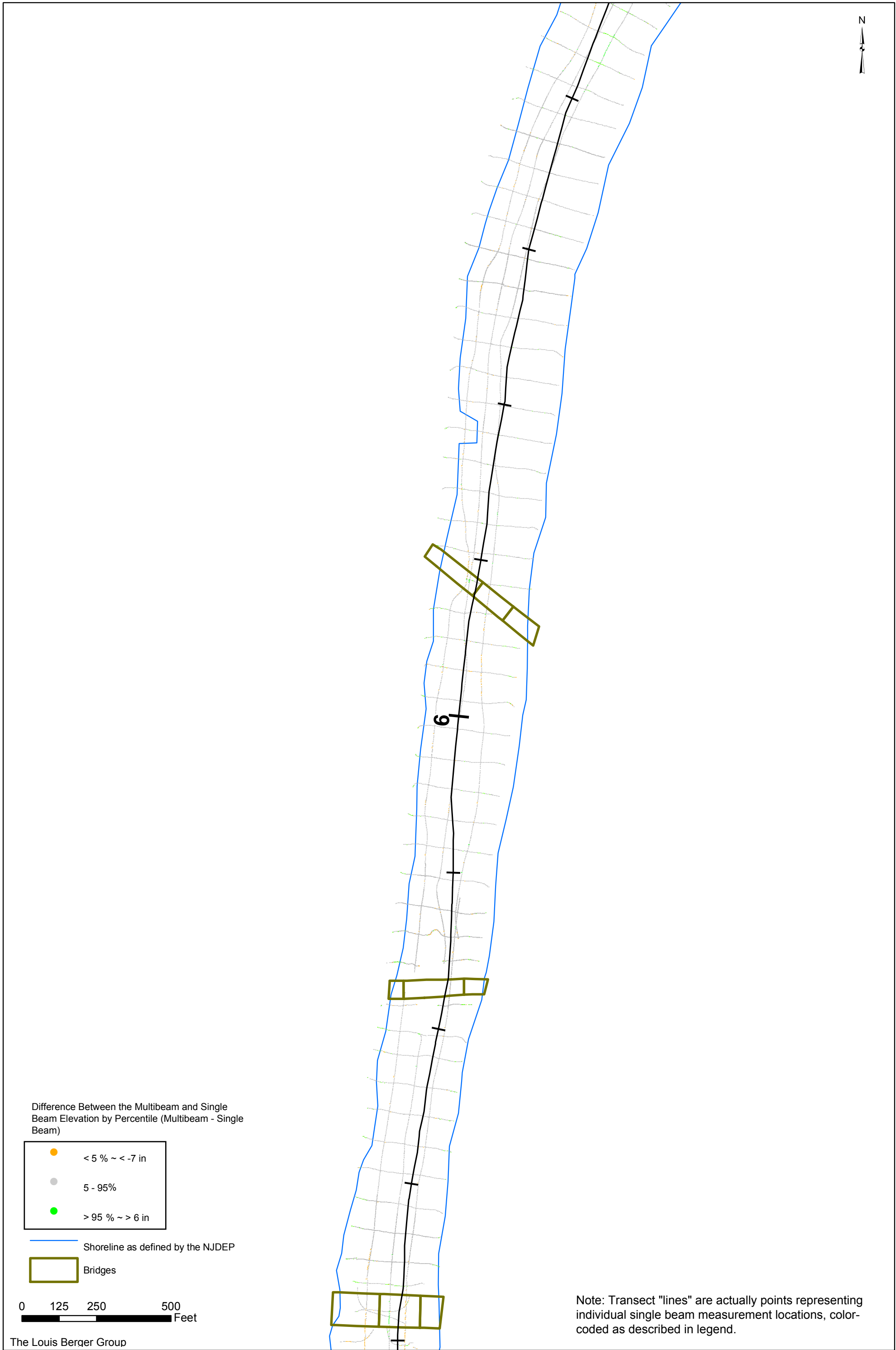


Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration

Figure 2b

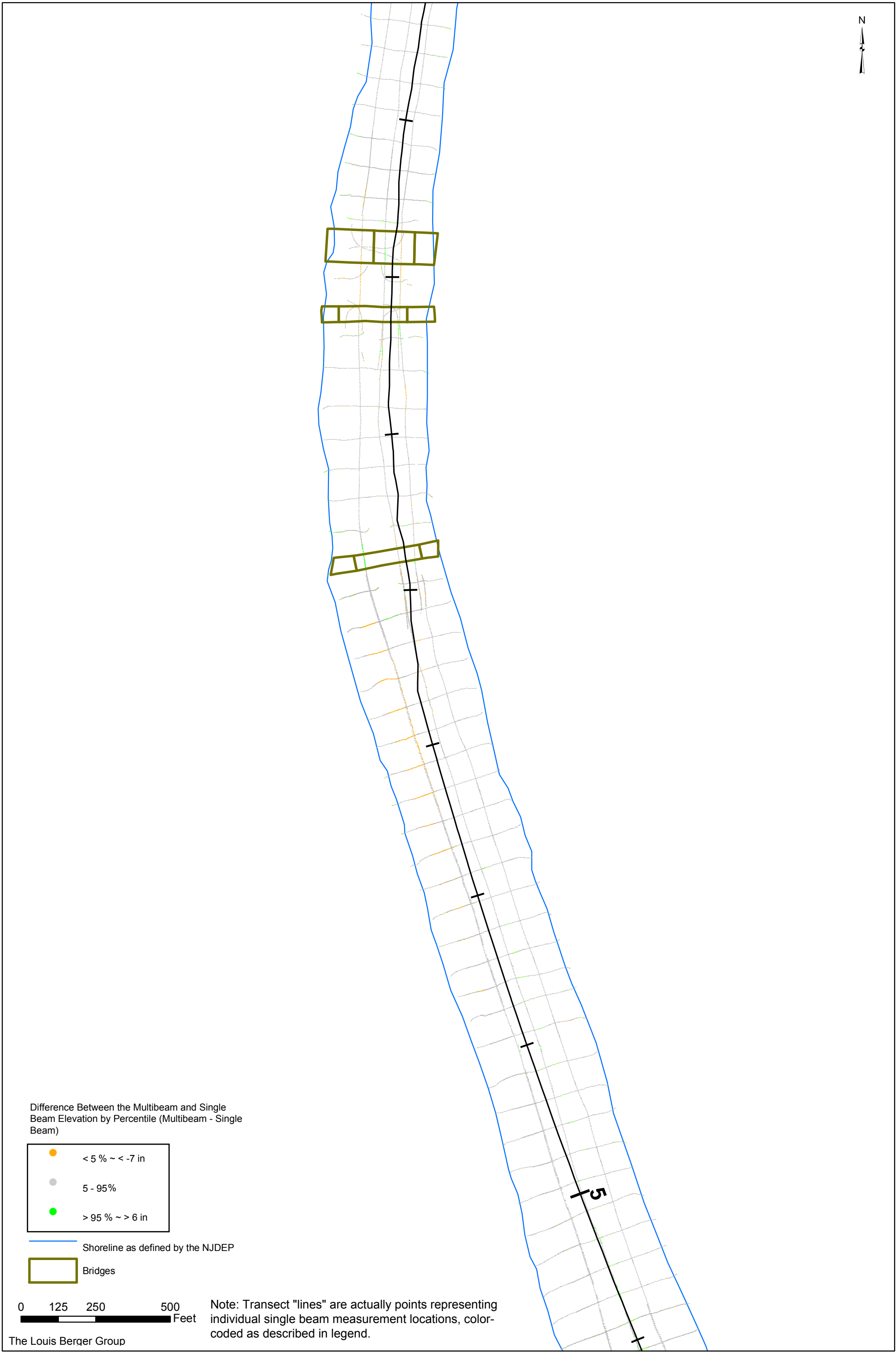
November 2009



Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration

Figure 2d
November 2009



Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration

Figure 2e

November 2009

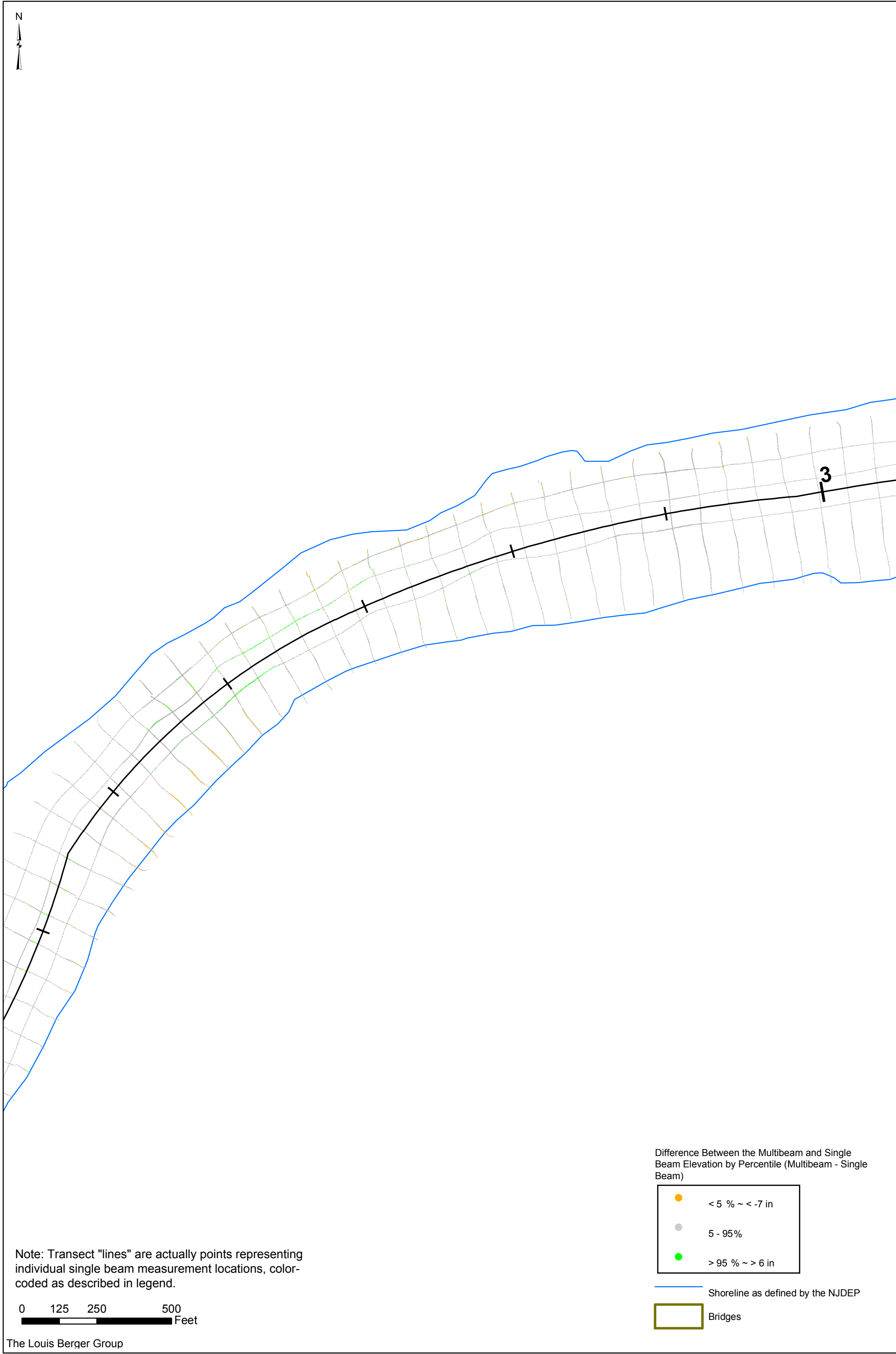


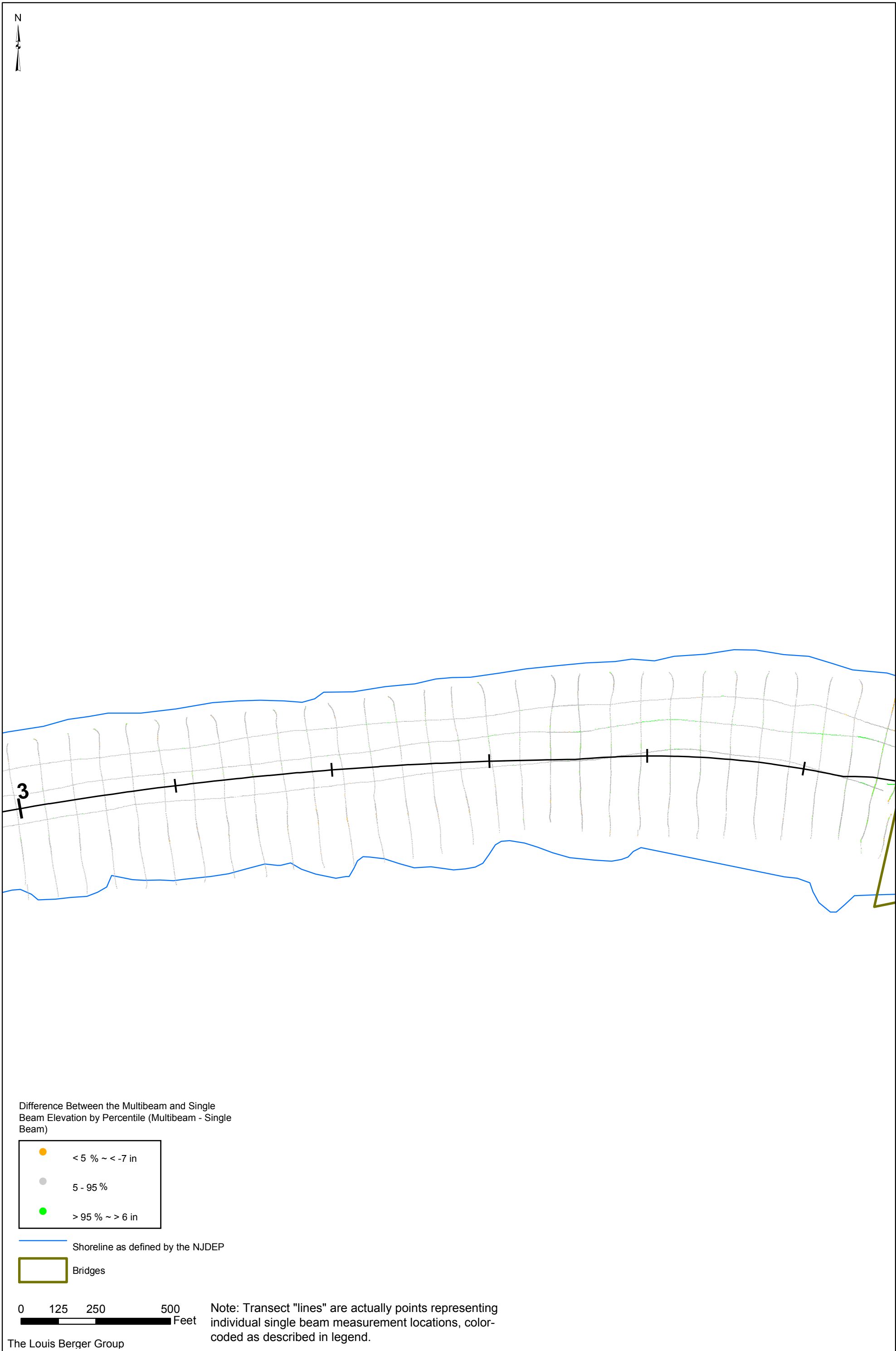
Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration

Figure 2f

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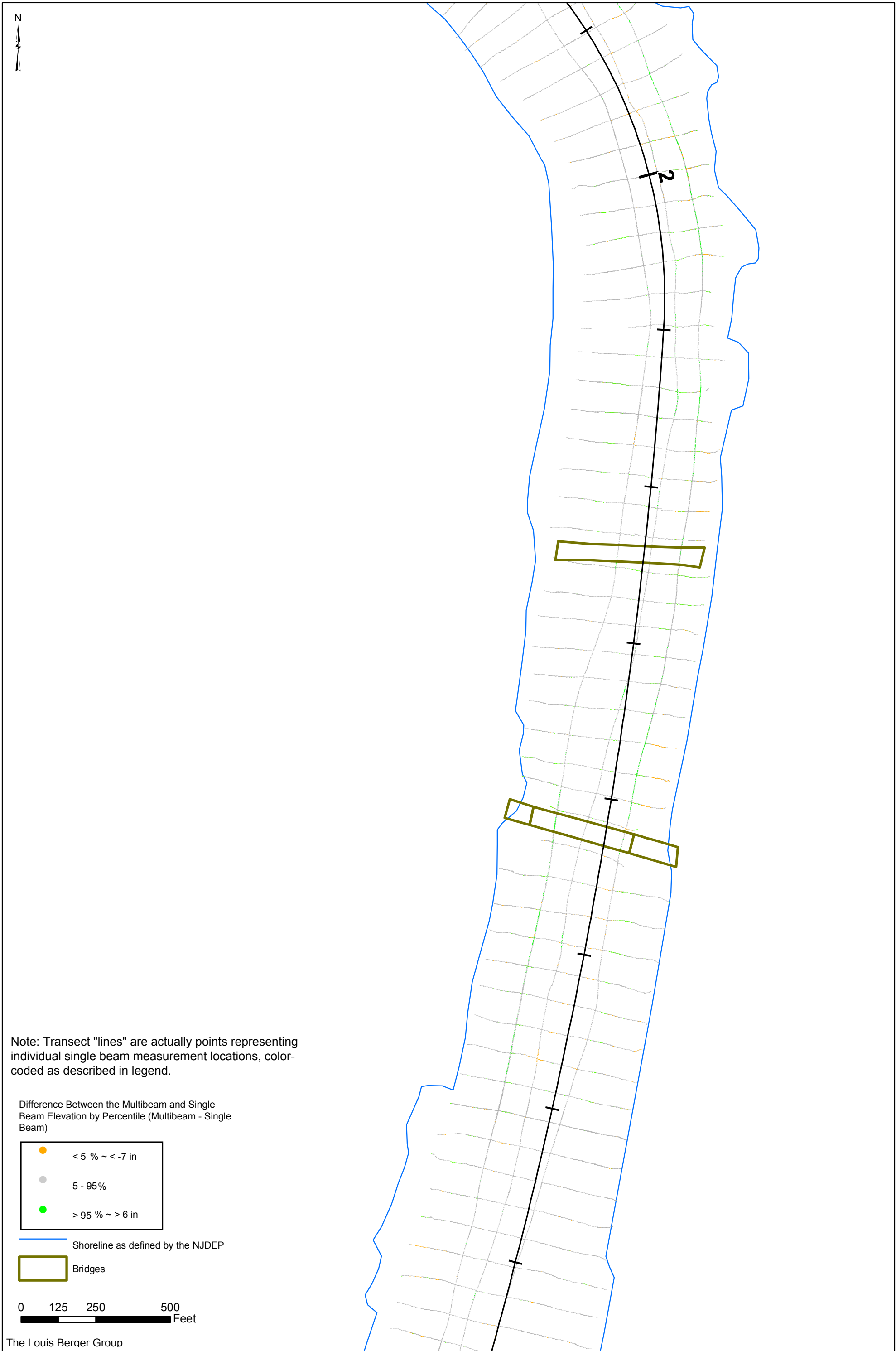
Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration



Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration

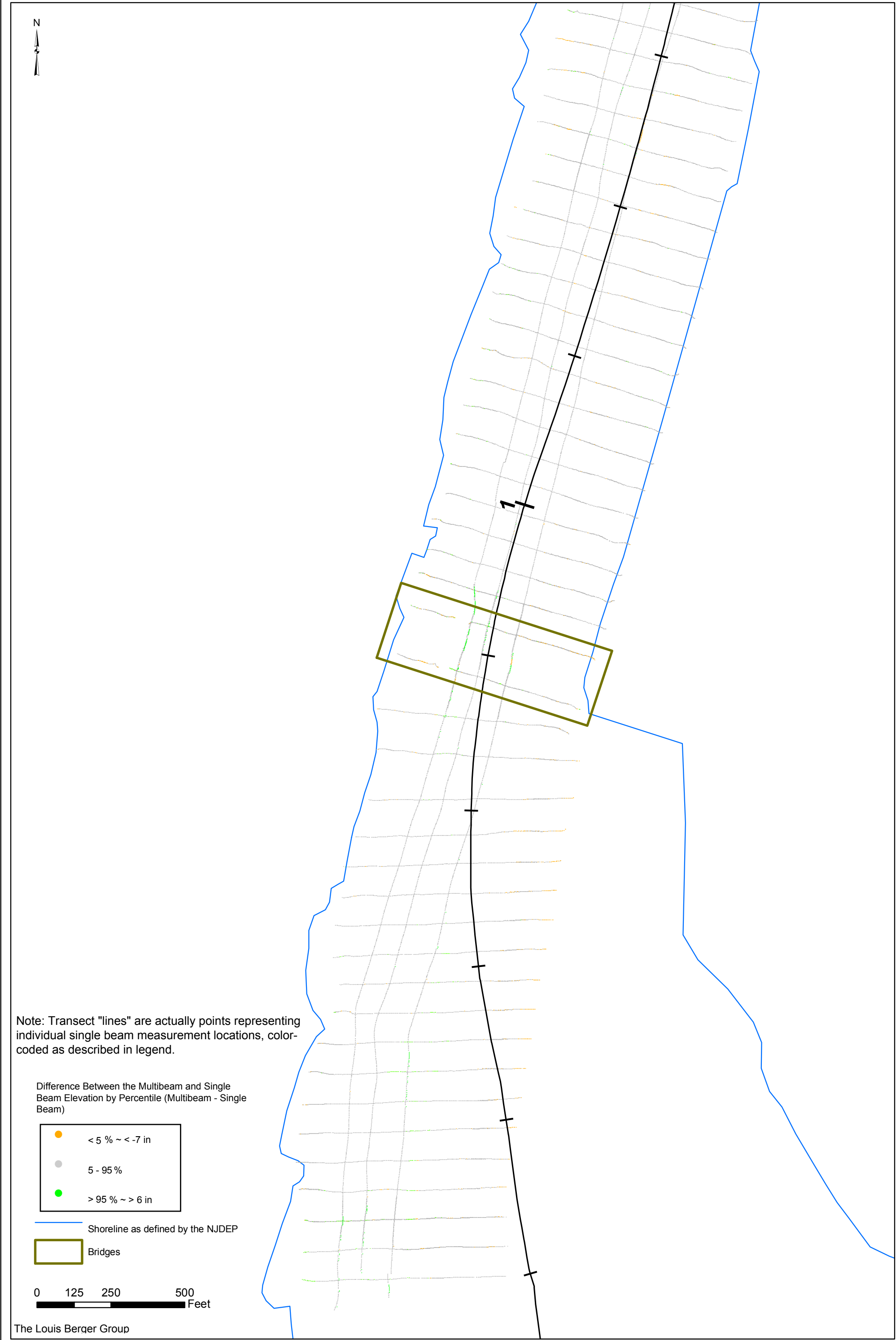


Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration

Figure 2I

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Comparison of the MultiBeam and Single Beam Surveys

Lower Passaic River Restoration

Figure 3a: Conditional Simulation Validation:
Difference between 2007 Actual Multibeam Surface
and Predicted 2007 Surface

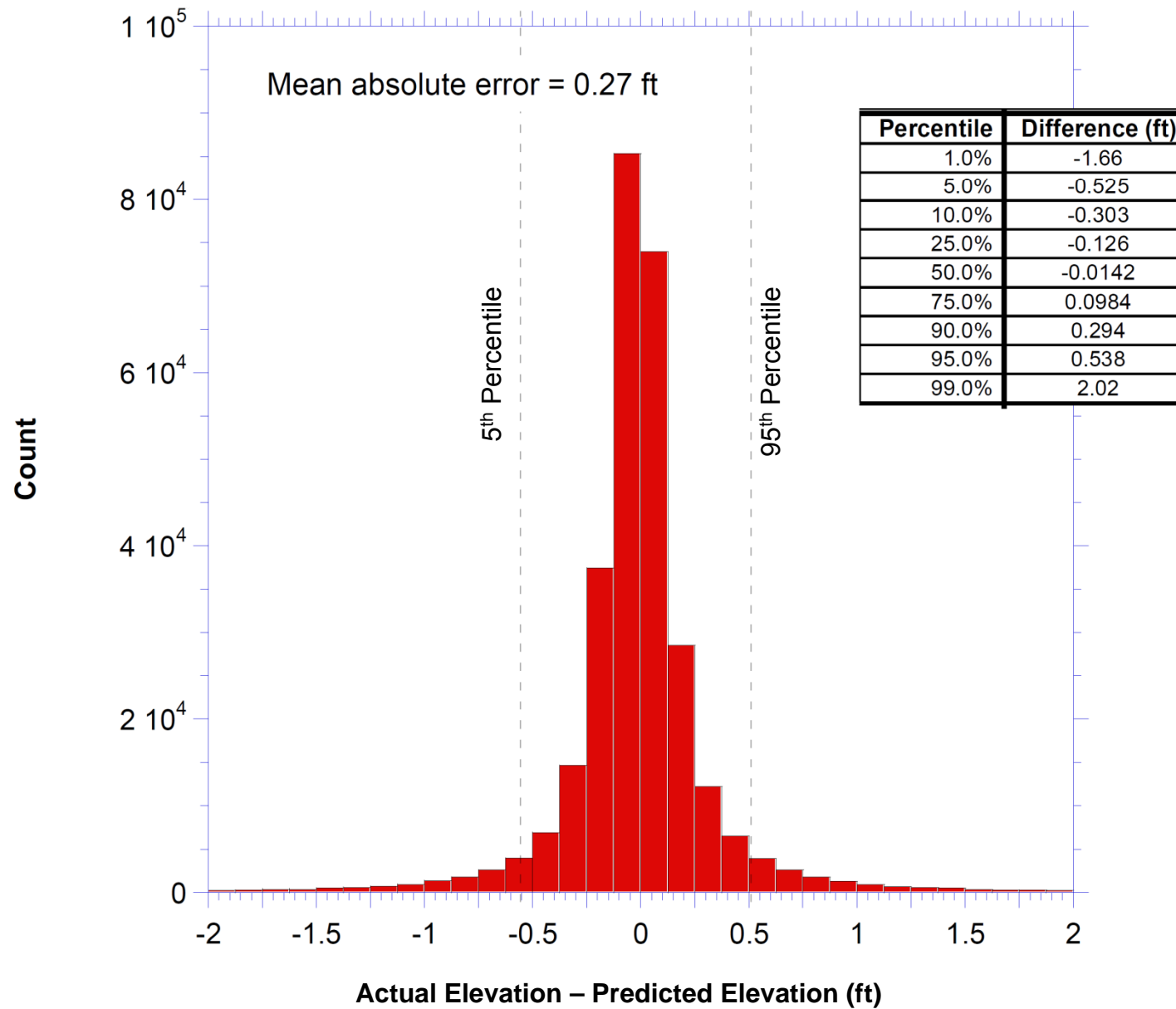


Figure 3b: Passaic Bathymetric Change Observations

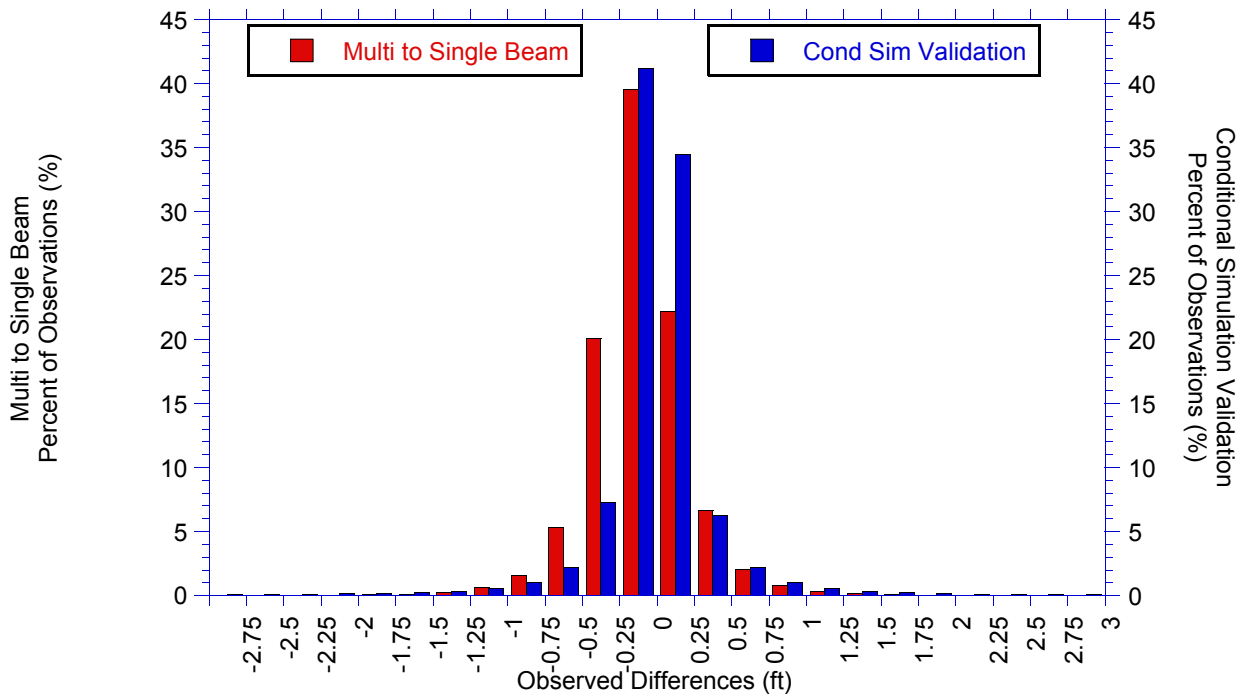


Figure 4: Conditional Simulation Validation False Positive rates

2007 Multibeam Surface Approximated by the 1995 Locations
via Conditional Simulation

Threshold	P(Erode>12-in)	P(Erode>6 in)	P(Erode>3 in)	P(Erode>0 in)
>31% probability	5%			
>50% probability	2.09%	5.23%	12%	49.7%
>62.5% Probability			5%	
>70% probability	1.178%	2.156%	3.367%	6.556%
>74% probability				5%